

**SYSTEM AND METHOD FOR
ESTABLISHING BLUETOOTH COMMUNICATIONS**

ABSTRACT OF THE INVENTION

5 A system and method have been provided for establishing communications with an existing Bluetooth protocol piconet. The master device of the piconet broadcasts a beacon frequency at a predetermined frequency. The beacon frequency includes the BD_addr of the master device, as well as clock information, so that an

10 inquiring device monitoring the beacon can acquire the system timing and transmission hopping frequency sequence. In a contention period following the beacon frequency, the inquiring device transmits its own BD_addr. In response to receiving the inquiring device BD_addr, the master device provides the inquiring device with an

15 AM_addr.